

WHAT IS CLAIMED IS:

1. An ignition apparatus comprising:
 - two ignition plugs at a single cylinder, the ignition plug being applied with a high voltage from the ignition apparatus,
 - an iron core constituting a magnetic circuit,
 - a primary coil constituted by winding a primary copper wire around the iron core, and
 - a secondary coil constituted by winding a secondary copper wire around an outer periphery thereof, the primary coil and the secondary coil being contained in a case and thereafter sealed by an insulating member, wherein the secondary coil is wound around a secondary bobbin,
- 15 the secondary bobbin includes a center tap terminal, and
 the secondary coil is regularly wound until reaching the center tap terminal, and is wound therearound from a regular winding direction to an inverse winding direction after reaching the center tap.
- 20

2. An ignition apparatus comprising:

two ignition plugs at a single cylinder, the ignition plug being applied with a high voltage from the ignition apparatus directly attached onto an engine head cover
5 for directly applying the high voltage,

an iron core constituting a magnetic circuit,

a primary coil constituted by winding a primary copper wire around the iron core, and

10 a secondary coil constituted by winding a secondary copper wire around an outer periphery thereof, the primary coil and the secondary coil being contained in a case and thereafter sealed by an insulating member, wherein

the secondary coil is wound around a secondary bobbin,

15 the secondary bobbin includes a center tap terminal at a center thereof,

the secondary coil is regularly wound until reaching the center tap terminal, and is wound therearound from a regular winding direction to an inverse winding
20 direction after reaching the center tap, and

the center tap terminal is connected to the ground or a + electrode of a battery.

3. The ignition apparatus according to Claim 1, further comprising:

an ON time voltage preventing diode arranged between the center tap terminal and the ground or the + electrode 5 of the battery.

4. The ignition apparatus according to Claim 1, further comprising:

a regularly winding secondary coil and an inversely 10 winding secondary coil individually provided, and the ON time voltage preventing diodes arranged between the respective center tap terminals and the ground or the + electrode of the battery.

15 5. The ignition apparatus according to Claim 1, further comprising:

the ON time voltage preventing diodes arranged between terminals of the secondary bobbins and the ground or the + electrode of the battery.

20

6. The ignition apparatus according to Claim 2, further comprising:

an ON time voltage preventing diode arranged between the center tap terminal and the ground or the + electrode 25 of the battery.

7. The ignition apparatus according to Claim 2, further comprising:

a regularly winding secondary coil and an inversely winding secondary coil individually provided, and the ON time voltage preventing diodes arranged between the respective center tap terminals and the ground or the + electrode of the battery.

10 8: The ignition apparatus according to Claim 2, further comprising:

the ON time voltage preventing diodes arranged between terminals of the secondary bobbins and the ground or the + electrode of the battery.

15